

Claims

1. A cooling array with a housing (10) receiving built-in electrical components (11) and with an air conditioning arrangement, which is connected with a heat source of the built-in electrical components via a coolant-conducting inflow line (22) and a return output (26),

characterized in that

several component inlet lines (27) branch off the inflow line (22) and several component outflow lines (23) branch off the outflow line (26), and

at least one component inlet line (27) and at least one component outflow line (23) is assigned to a built-in electrical component (11).

2. The cooling array in accordance with claim 1,

characterized in that

the component inlet (27) and the component outflow lines (23) have connecting elements at their ends, which can be joined together with corresponding counter-connecting elements to form coupling connections (28).

3. The cooling array in accordance with claim 1 or 2,

characterized in that

an inlet (20) and a return flow line (29) branch off the air conditioning arrangement and are connected to the inflow line (22) and the outflow line (26), and

the connections are constituted by coupling connections (21).

4. The cooling array in accordance with claim 2 or 3,
characterized in that
the coupling connections are embodied as couplings which can be separated
and joined without dripping.

5. The cooling array in accordance with one of claims 1 to 4,
characterized in that
the housing (10) is a switchgear cabinet, whose rear area constitutes a receiving
space for the vertically extending inflow line (22) and outflow line (28).

6. The cooling array in accordance with claim 5,
characterized in that
in the roof area of the housing (10) the inflow line (22) makes a transition into
the outflow line (26) via a connecting line (25), and
a ventilating device (24) is integrated into the connecting line (25).

7. The cooling array in accordance with one of claims 1 to 6,
characterized in that
the amount of coolant conducted to the built-in electrical components (11) can
be controlled by means of a governor (30) integrated into the component inlet line (27) or the
component outflow line (23).

8. The cooling array in accordance with one of claims 1 to 7,
characterized in that
the inflow line (22) and/or the outflow line (26) are embodied as rigid profiled
legs, which form a guide channel for the coolant, for example water.

9. The cooling array in accordance with claim 8,
characterized in that
the profiled leg is embodied as an extruded profiled section.

10. The cooling array in accordance with claim 8 or claim 9,
characterized in that
the housing (10) has a support frame with vertical profiled sections, and
the inflow line (22) and/or the outflow line (26) is integrated into at least one profiled
section.